F AFL Telecommunications
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Test & Inspection

OPM 1 Optical Power Meter

This portable optical power meter may be used to measure optical power in premises, telco, or broadband fiber optic networks. When used with an LED or laser light source, the OPM 1 can also measure the attenuation (insertion loss) of multimode or single-mode cables. With only two controls – ON/OFF and wavelength – the OPM 1 is our simplest to use optical power meter. Optical power in dBm and the calibration wavelength setting are displayed on an easy-to-read LCD display. The optical input port accepts Noyes thread-on style connector adapter caps. Adapter caps are required and must be ordered separately. The OPM 1 is fully N.I.S.T. traceable and runs on a standard 9-volt alkaline battery.

Features

- 850, 1300, 1310, 1550 nm
- Premises (Ge) and broadband (InGaAs) models
- Displays optical power (dBm)
- Our simplest to use optical power meter
- N.I.S.T. traceable

Applications

- The OPM 1-2C is calibrated at 850, 1300, 1310, and 1550 nm for testing LAN, Ethernet, FDDI, Token Ring, and single-mode fiber systems such as Telco, WAN, and CATV.
- The OPM 1-3C also operates at 850, 1300, 1310, and 1550 nm but offers greater temperature stability needed for outside plant 1550 nm testing as with WAN, CATV, and Telco systems.

Specifications

Optical Specifications	OPM 1-2C	OPM 1-3C
Calibration wavelengths	850, 1300, 1310, 1550 nm	850, 1300, 1310, 1550, 1625 nm
Detector type	Germanium (Ge)	InGaAs
Measurement range	+6 to -60 dBm	+6 to -70 dBm
Accuracy (@25° C, -10.0 dBm)	±0.25 dB	
Measurement units	dBm	
General Specifications		
Power	Typical 60 hours with 9V battery	
Adapter caps	order separately (ST, SC, FC, and others available)	
Operating temperature	-10 to 50°C	
Relative humidity	0 to 95% (non-condensing)	
Storage temperature	-30 to 60°C	
Size (H x W x D)	5.5 x 3.2 x 1.5 in (14.0 x 8.1 x 3.8 cm)	
Weight	0.58 lb (0.26 kg)	

All specifications at 25°C

Ordering Information

Model	Includes
All OPM 1 models	Protective rubber boot, 9V battery, manual, and carrying case.

Optical power meters and optical light sources can be packaged together as a kit.

N NOYES
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